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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,341	01/25/2005	Michael Kock	532622010400	5941	
	7590 02/06/200 OVE LODGE & HUT	EXAMINER			
P O BOX 2207		ZHENG, LI			
WILMINGTON	i, DE 19899		ART UNIT	PAPER NUMBER	
			1638	٠	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
31 DAYS 02/06/2007			PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			Application No.	Applicant(s)	Applicant(s)			
Office Action Summary			10/522,341	KOCK ET AL.				
			Examiner	Art Unit				
			Li Zheng	1638				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSING (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DAT of 37 CFR 1.136 junication. atutory period will will, by statute, c	TE OF THIS COMMUN (a). In no event, however, may apply and will expire SIX (6) Ma ause the application to become	VICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status			,					
1)🛛	Responsive to communication(s) file	d on <i>07 Mai</i>	rch 2006.					
2a) <u></u>			ction is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-31 is/are pending in the a	pplication.						
•	4a) Of the above claim(s) is/ar		n from consideration.					
5)	Claim(s) is/are allowed.							
6)□	Claim(s) is/are rejected.							
7)	Claim(s) is/are objected to.			•				
8)🛛	Claim(s) <u>1-31</u> are subject to restriction	on and/or ele	ection requirement.					
Applicati	on Papers				•			
9)	The specification is objected to by the	e Examiner.	•					
10)	The drawing(s) filed on is/are:	a) accep	oted or b) objected to	o by the Examiner.				
	Applicant may not request that any object	ction to the dr	awing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correctio	n is required if the drawir	ng(s) is objected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119	•		,				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
	a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
•	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
	e of Draftsperson's Patent Drawing Review (Pination Disclosure Statement(s) (PTO/SB/08)	1 U-948)		f Informal Patent Application				
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Claim 7 is objected because the recitation, "in any of claims 1to 6 claim1", appears to have cleric errors.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-10, 21-26, drawn to a process for preparing transformed plant cells or organisms.

Group II, claim(s) 11, drawn to a amino acid sequence of a plant 5-methylthioribose kinase.

Group III, claim(s) 12, drawn to a nucleotide sequence encoding 5-methylthioribose kinase .

Group IV, claim(s) 13-17,27-31, drawn to a dsRNA or vector containing said dsRNA.

Group V, claim(s) 18-20, drawn to transgenic plant expressing said dsRNA.

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The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking the inventions of Groups I-V is a marker gene capable of directly or indirectly causing a toxic effect. However, such marker gene is anticipated by Gleave et al (1999, Plant Molecular Biolog 40: 223-235). Gleave et al. teach that cytosine deaminase (coda) gene is capable of converting the non-toxic 5-fc to toxic 5-fluorouracil in plant. Therefore this technical feature does not constitute a special technical feature as defined by PCT Rule 13.2, because it does not define a contribution over the prior art.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

1) different compounds of X listed in claim 4; 2) different corresponding marker proteins listed in claims 5, 21 and 23; 3) different plant species listed in claim 19.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

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subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: Claims 1, 2, and 3.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the technical feature linking those species is marker gene capable of directly or indirectly causing a toxic effect. The substance X and the gene both are anticipated by Gleave et al. as discussed above.

Applicants are reminded that different nucleotide sequences and amino acid sequences are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute different inventive concepts.

For invention groups I, IV and V, restriction to one of the GenBank Accession No.s in claim 6, part a), one of the corresponding nucleotide sequences of SEQ ID NO: 2-48 is also required.

For invention group II, restriction to one of the corresponding polypeptide sequences of SEQ ID NO: 60-68 is also required.

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For invention group III, restriction to one of the corresponding nucleotide sequences of SEQ ID NO: 59-67 is also required.

Claims that do not read on the elected nucleotide sequence or polypeptide sequence will be considered withdrawn. Applicant is advised that a reply to this requirement must include an identification of the nucleotide sequence or polypeptide sequence that is selected. An election that does not identify the nucleotide sequence or polypeptide sequence will be considered nonresponsive. This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of single genus of invention, but constitutes an independent and patentably distinct invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li Zheng whose telephone number is 571-272-8031.

The examiner can normally be reached on Monday through Friday 9:00 AM - 5:30 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on 571-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ELIZABETH MCELMAN